

Library Services & Technology Act

FY 1999-2000 - APPLICATION FORM

Organization/Institution Westminster College

Mailing Address 1840 South 1300 East Salt Lake City, UT 84105

If this is a collaborative project with more than one organization, please list the names of participants and their organizations/institutions on a separate sheet of paper.

Project Title Adaptive Technologies to Assist Persons with Disabilities

Organization Director Dr. Peggy A. Stock

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Project Director's Name David Hales
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Check Applicable Grant Category

For Public Libraries Only			
Basic Technology	Automation Grant _____		
Enhanced Integrated System	Planning Grant _____	Technology Grant _____	
Enhanced Internet Connectivity	Planning Grant _____	Technology Grant _____	
For All Libraries			
Community Electronic Network	Planning Grant _____	Technology Grant _____	
Partnerships & Cooperative Projects	Planning Grant _____	Implementation Grant _____	
Improved Access to Library Services	Planning Grant _____	Technology Grant <u>X</u>	Customized Service Grant _____

Check Funding Category

_____ Mini-Grant (to \$7,500)	No Match required
<u> X </u> Regular (\$7,501-\$74,999)	<u> X </u> Match (25%)
_____ Major (\$75,000 and up)	_____ Match (35%)

AMOUNT REQUESTED FOR THE TOTAL PROJECT:

Federal LSTA: \$ 13,867.50

Match (if required) \$ 4,622.50 % 25

Total \$ 18,490.00

Mini and Regular grant applications (12 copies for Mini-grants / 25 copies for Regular Grants) must be postmarked by Wednesday, February 2, 2000 or received by 5:00 p.m. Friday, February 4, 2000, at the Utah State Library Division, 250 North 1950 West, Suite A, Salt Lake City, UT 84116-7901

Twenty-five (25) copies of the Major Grant applications must be postmarked by Wednesday, February 2, 2000 or received by Friday, February 4, 2000. Mail to 250 North 1950 West, Suite A, Salt Lake City, UT 84116-7901). FAXED applications will not be accepted. Return applications and direct questions to: Jane E. Smith, Grants Coordinator (1-801-715-6742) or email: jsmith@.state.lib.ut.us or 1-800-662-9150.

< Please scroll down for the rest of the application.>

I. SUMMARY

PROJECT TITLE: Technologies to Assist Persons with Disabilities

PROJECT DATES: May 2000 to December 31, 2000

Summary of Project in 150 words or less:

Westminster College has experienced 25% enrollment growth in the past three years. Due to the personal attention provided Westminster students, high school counselors often recommend Westminster to disabled students. As a result, the college's disabled student population has grown from 20 to 60 since 1991.

Westminster's Giovale Library, dedicated in September 1997, relies heavily on technology to deliver information to students, but none of the library's computer workstations are adapted for persons with disabilities. Since computer technology significantly enhances the ability of disabled persons to retrieve information, Westminster College requests LSTA funds to create two adaptive technology workstations in the Giovale Library.

Westminster College will purchase computers and adaptive technologies to create two workstations to serve students with visual, mobility, and learning disabilities as outlined in the attached budget. This project will be evaluated via records of equipment usage and formal and informal surveys.

II. PROJECT DESCRIPTION

A. NEEDS STATEMENT

Westminster College is experiencing unprecedented success and prestige. Westminster is rated in the top 10% of public and private colleges and universities in the United States by *Peterson's Guide to Competitive Colleges* and has been placed in the top tier of private and public colleges and universities in the West by *U.S. News & World Report* for five consecutive years. For the third consecutive year, *U.S. News & World Report* has also named Westminster in the top tier of regional universities in the West for "Schools that Offer the Best Value." Due in part to these national ratings, Westminster's enrollment has grown at a record rate, with over 25% growth in the past three years.

As Westminster's overall enrollment has increased, the number of students with disabilities has also grown. The college currently has 60 students with physical and learning disabilities. This is an increase of 200% since 1991, when the number of students with disabilities was approximately 20. Westminster College's increasing

disabled student enrollment follows national trends in higher education. This trend is expected to continue as many high school counselors recommend Westminster to disabled students due to our small class size and the personal attention provided.

Computer technology significantly enhances participation in academics for persons with disabilities. Through adaptive technologies, students with disabilities can conduct independent research and become more self reliant in their coursework. In addition, the Americans with Disabilities Act mandates that individuals with disabilities must be accommodated in all settings, including schools and libraries.

The college's 47,000 sq ft Giovale Library, which was dedicated in 1997, is a wonderful academic resource. Besides printed materials, the library provides electronic databases in a wide range of subject areas. Westminster's Giovale Library is open to use by the general public and participates in the interlibrary loan system with other libraries in Utah and worldwide. The Giovale Library is a member of the Utah Academic Library Consortium.

Nearly every study space in the Giovale Library is electronically wired to the Internet and the campus network. The library provides 72 public workstations, including 58 in the downstairs computer laboratory. The library's bibliographic instruction classroom has an additional 22 workstations where students are instructed in utilizing Internet and database information resources. In addition, the library maintains 10 laptop computers for check-out and use at one of the library's 64 network drops.

None of the Giovale Library's computer workstations are equipped for persons with disabilities. Given the college's growing enrollment, and the increased enrollment of students with disabilities, the Giovale Library must have computer stations equipped with adaptive hardware and software to better meet the needs of all Westminster College students and to comply with the Americans with Disabilities Act. This proposal requests funds to meet this need.

B. PROJECT GOALS AND OBJECTIVES

- **Make Library Information More Accessible to Disabled Persons Via Adaptive Technologies**
 - Purchase and install the adaptive hardware and software needed to make two computer workstations available for disabled library patrons.
 - Increase the knowledge of library staff in the use of adaptive computer equipment and programs.
- **Make Giovale Library Better Comply with Americans with Disabilities Act**
 - Increase access to reference and research information for persons with disabilities.

C. PROGRAM/METHODS STATEMENT

Purchase Hardware and Software to Develop Two Computer Workstations

Within the past two months, key library staff and START Center staff who work with the college's disabled population have learned about adaptive technologies by contacting the following organizations:

- State Library for the Blind
- State Rehabilitation Services Center for Assistive Technologies
- Salt Lake City Public Library
- Society for the Blind (Summit County, Ohio)

Based on the recommendations of these organizations, and the current needs of our students, Westminster College has identified the following hardware and software that must be purchased to create two adaptive workstations in the Giovale Library:

- Two desktop Pentium III PCs, one with 21" monitor, one with 19" monitor
- An HP Laser Jet Printer
- Optelec Spectrum SVGA Computer Compatible Video Magnifier
 - For persons with low vision abilities, this system incorporates the use of a closed circuit TV camera to enlarge images. When attached to a computer it can be used as a stand-alone closed circuit TV for viewing printed material or to view electronic materials. This system offers a split screen capability on which both printed and written materials can be viewed simultaneously.
- Two Expert Mouse Trackballs
 - This specialized mouse has a large ball for precision control and less hand and arm movement and provides extra-large buttons for easier use.
- A Kurzweil 3000 Scanner/Color Reader and Software
 - This PC-based reading system helps persons with reading difficulties improve reading speed and comprehension. The system provides both auditory and visual presentations of scanned text and images.
- Intellikeys Specialized Keyboard
 - This system provides a flexible keyboard that can be customized to meet the needs of the user.

- **JAWS Screen Reader Software**
 - This software speech synthesizer provides screen reading capabilities in seven languages.
- **Dragon Naturally Speaking Software**
 - This software enables the user to dictate verbally into a computer at up to 160 words per minute. Dictation is immediately transcribed on the screen.

Westminster College has already purchased ZoomText Xtra version 7, a software program that provides some large text and speech functions for persons with visual disabilities. This program represents a \$2,500 investment by Westminster College.

Identify the Best Location for the Equipment

Before installing adaptive technology equipment, the college will assess the best location in the library for its placement. Three factors will be considered:

- **Physical Access.** Computer stations equipped with adaptive technologies must be accessible to persons with disabilities.
- **Visibility.** The disability accessible computer workstations must be easily identifiable (via location and signs) by library patrons.
- **Access to Assistance.** Computer stations equipped with adaptive technologies must be close to trained library personnel.

Educate Library Staff

Education of library staff will be critical to the success of this program. The library staff most likely to assist disabled patrons with the new hardware and software will consult with staff from the State Library for the Blind, the State Rehabilitation Services Center for Assistive Technologies and other libraries to learn how to assist library patrons in using the hardware and software purchased as a result of this grant.

D. PROJECT TIMETABLE

The project will begin as soon as LSTA grants are awarded. Funds will be expended, and equipment in place by December 31, 2000.

E. EVALUATION STATMENT

The success of this project will be measured by the collection of both statistical and anecdotal data. Westminster College will employ the following three methods to collect this data:

- **Equipment Usage**
Patron utilization of the adaptive computer workstations will be recorded by library staff. The college will record both numbers of patrons using the equipment and the amount of time the workstations are utilized.
- **Surveys of Disabled Students**
The college will survey disabled students to identify the frequency with which they use the equipment and their satisfaction with it.
- **Informal Interviews with Disabled Library Patrons**
Library staff will conduct informal interviews with disabled patrons to assess their satisfaction with the equipment. The library staff will ask for suggestions to improve the usefulness of the workstations.

F. COMMUNITY SUPPORT STATEMENT

The Westminster College Office of Student Services and the Westminster College Disabilities Task Force are in full support of this grant proposal. At this time, the college has not requested outside, community support. However, our office of Corporate Relations is aware of the request and will request further support for this project from Utah companies specializing in information technologies.

G. FUTURE FUNDING STATEMENT

Westminster College will provide future funding for the maintenance and replacement of the adaptive computer equipment and software purchase with this grant.

III. PROPOSED PROJECT BUDGET

Please provide information where applicable and divide your proposed budget into the following categories. Be specific and be certain of items for expenditure of funds. (Revisions are possible and require submitting formal paperwork and State Library Division approval. If a revision is necessary, remember that your application for LSTA funds was successful because of the needs identified in this application and proposed budget. Revisions require an indication of why the change is desired, why other funds can't be used, and specific revised amounts.)

<u>Category</u>	<u>LSTA Funds</u>	<u>Local Funds</u>	<u>Other*</u>	<u>Total Funds</u>
A. Personnel Expenses:				
Salaries and Wages	_____	_____	_____	_____
Employee Benefits	_____	_____	_____	_____
SUBTOTAL	<u>0</u>	<u>0</u>	_____	_____
B. Operating Expenses:				
Travel	_____	_____	_____	_____
Training	_____	_____	_____	_____
Materials/Supplies	_____	_____	_____	_____
Contracted Services	_____	_____	_____	_____
Other	_____	_____	_____	_____
SUBTOTAL	<u>0</u>	<u>0</u>	_____	_____
C. Equipment & Capital Outlay Expenses:				
Computer Hardware	<u>6,602.50</u>	<u>4,622.50</u>	_____	_____
Computer Software	<u>1,390</u>	_____	_____	_____
Other OPTELEC Magnifier	<u>3,095</u>	_____	_____	_____
SUBTOTAL	<u>11,087.50</u>	<u>4,622.50</u>	_____	_____
D. Other, Specify below	<u>2,780</u>	_____	_____	_____
SUBTOTAL	<u>2,780</u>	<u>0</u>	_____	_____
(Furniture)				
E. Percentage of Matching funds: 25%		_____	_____	_____
SUBTOTAL		_____	_____	_____
TOTALS	<u>\$13,867.50</u>	<u>\$4,622.50</u>	_____	<u>\$18,490</u>

*Source of funds in this category include donations, Friends fund raising, private sector grants. Do not include "in kind" donations. (See *Handbook* for general information and guidelines.)

IV. DETAILS: PROPOSED PROJECT BUDGET DESCRIPTION

A. PERSONNEL EXPENSES: \$ 0

No personnel expenses are anticipated for this project.

B. OPERATING EXPENSES: \$ 0

No operating expenses are anticipated for this project.

C. EQUIPMENT/CAPITAL OUTLAY: \$18,490

The majority of expenditures for this project will be for the purchase of adaptive hardware, software and associated furniture to serve persons with mobility, low vision and learning disabilities, and blind persons. These expenditures are outlined below.

<i>item</i>	<i>number</i>	<i>cost per</i>	<i>total</i>
Pentium III PC with 400MHZ			
o 128 MB RAM			
o Network Card Compatible with Campus Network			
o 48x CD ROM			
o Sound and Video Cards			
Above with 21" Monitor	1	\$4,000	\$4,000
Above with 19" Monitor	1	3,300	3,300
An HP Laser Jet Printer	1	800	800
Optelec Spectrum SVGA Computer Compatible Video Magnifier	1	3,095	3,095
Two Expert Mouse Trackballs	2	100	200
A Kurzweil 3000 Scanner/Color Reader and Software	1	1,995	1,995
Intellikeys Specialized Keyboard	1	680	680
Intellikeys Keyguard	1	250	250
JAWS Screen Reader Software		795	795
Dragon Naturally Speaking 4.0 Voice Recognition Software		595	595
Adjustable Computer Workstation	2	995	1,990

Adjustable Workstation Chair	2	395	790
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TOTAL			\$18,490
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D. OTHER EXPENSES: (Please specify) \$ 0

There will be no “other” expenses.

V. SIGNATURES

The organization/library accepting the fiscal and administrative responsibility for this LSTA grant project should sign first. Please add additional signature lines for the other directors, board chairs, local government or institutional representatives involved in the project.

We hereby certify that all matching funds shown in this application are available for use in this project.